

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

## INTERDEPARTMENT CORRESPONDENCE

FILE STP-181-1(4) Dade County OFFICE Preconstruction  
P.I. No. 621230  
DATE September 4, 1992

FROM *CWH Hutto*  
C. Wayne Hutto, Assistant Director of Preconstruction

TO SEE DISTRIBUTION

SUBJECT PROJECT CONCEPT REPORT APPROVAL

Attached for your files is the approval for subject project.

CWH/se

Attachment

## DISTRIBUTION:

John Lively  
Robert E. Humphrey  
David Studstill  
Herman Griffin  
Roland Hinnens  
Darrell Elwell  
George Boulineau  
Felton Rutledge  
Ron Colvin  
Paul Liles

TIME SAVING  
PROCEDURES

# DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

## INTERDEPARTMENT CORRESPONDENCE

FILE STP-181-1(4) Dade County  
P.I. No. 621230

OFFICE Preconstruction

DATE August 31, 1992

FROM Hoyt C. Lively, Director of Preconstruction

TO Wayne Shackelford, Commissioner

SUBJECT PROJECT CONCEPT REPORT APPROVAL

This project is the widening of SR 136 from CR 52 to SR 58/US 11 in Dade County. The existing roadway consists of 2-12' lanes with a 12' center turn lane and 5' shoulders and/or curb and gutter. The major structure within the limits of this project is a 285'x40' bridge over I-59. The sufficiency rating is 100 and the bridge was constructed in 1967. The base year traffic (1996) is 14,700 VPD and the design year traffic (2016) is 22,500 VPD. The posted speed is 55/45/35 MPH and the design speed is 35/45 MPH.

The proposed project will widen the roadway to 2-12' lanes in each direction with a 14' center turn lane and 10' shoulders and/or curb and gutter. The bridge over I-59 will be widened to 78' which will include a 6' sidewalk left and right due to the school zone limits. The traffic signal at SR 58 will be upgraded. Traffic will be maintained on the existing road during construction. Additional rights-of-way will be required.

Environmental concerns include a possible 4(f) permit; an EA will be prepared; a public hearing will be offered; no displacements; time saving procedures are appropriate.

The estimated costs for this project are:

	<u>PROPOSED</u>	<u>APPROVED</u>	<u>PROG. DATE</u>
Constr(Infl&E/C)	\$2,616,653	\$1,530,000	Preprogram
Rights-of-way	\$ 410,000	No Est.	FY-96
Utilities	LGPA*	No Est.	

\*Anticipated

I recommend this project concept report be approved and removed from Preprogram Status and added to the Construction Work Program

HJL/TMR/se

CONCUR:

G. C. Lewis  
G. C. Lewis  
State Highway Engineer

APPROVED:

Wayne Shackelford  
Wayne Shackelford  
Commissioner

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

## INTERDEPARTMENT CORRESPONDENCE

RECEIVED  
JUL - 2 1992

FILE STP-181-1 (4) Dade County OFFICE Atlanta, Georgia  
P.I. No. 621230  
Widen SR 136 & Bridge Widening  
DATE July 1, 1992  
FROM Robert E. Humphrey, Project Review Engineer *REH som*  
TO Hoyt J. Lively, Jr., Director of Preconstruction  
SUBJECT PROJECT CONCEPT REPORT

We have reviewed the attached Concept Report for this Major project.

We have received signed cover sheets from the following offices:

Bridge Design  
Traffic and Safety  
Environmental  
District Engineer

This report is satisfactory for approval.

The estimated costs of this project are as follows:

Construction	<del>\$2,018,500</del> 2,068,560
Inflation (5% per year) x 3 yrs.	302,775
E & C (10%)	232,128
Preliminary Engineering (5%)	151,388
Right of Way	410,000
Utilities	LGPA

BDM/jmf

Attachments

c: Roland W. Hinnars

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
OFFICE OF ROAD AND AIRPORT DESIGN



PROJECT CONCEPT REPORT

STP-181-1(4)  
FORMALLY FR-181-1(4)  
DADE COUNTY

FEDERAL ROUTE NO:  
STATE ROUTE NO: 136  
GADOT P.I. NO: 621230

Date of Report: JUN-12-1992

RECOMMENDATION FOR APPROVAL	
<u>6/15/92</u> DATE	<u><i>Robert A. Hannon</i></u> State Road & Airport Design Engineer
_____ DATE	_____ State Environmental Engineer
_____ DATE	_____ State Traffic & Safety Engineer
_____ DATE	_____ District Engineer
_____ DATE	_____ STATE BRIDGE ENGINEER

# DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

## INTERDEPARTMENT CORRESPONDENCE

FILE STP-181-1(4) Dade County  
P.I. No. 621230  
OFFICE Road Design  
DATE June 12, 1992

FROM *Roland Hinner*  
Roland Hinner, P.E., State Road & Airport Design Engineer

TO Robert Humphrey, Project Review Engineer

SUBJECT Concept Report - SR 136 In Trenton

In accordance with the plan development process attached for further processing is the project concept report. It is requested that each office return any comments and signed cover sheet to the Office of Engineering Services.

RH:MG:bc  
Attachments

cc: John Lively  
David Studstill, w/att  
Ron Colvin, w/att  
Felton Rutledge, w/att  
Wayne Hutto  
*Bul Liles, w/att*



RECOMMENDATION FOR APPROVAL	
DATE	State Road & Airport Design Engineer
6/23/92	<i>[Signature]</i>
DATE	State Environmental Engineer
DATE	State Traffic & Safety Engineer
DATE	District Engineer
DATE	STATE BRIDGE ENGINEER

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
OFFICE OF ROAD AND AIRPORT DESIGN



PROJECT CONCEPT REPORT

STP-181-1(4)  
FORMALLY FR-181-1(4)  
DADE COUNTY

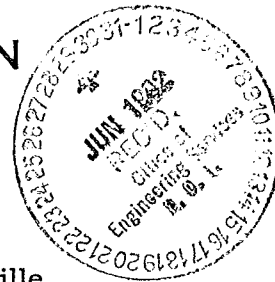
FEDERAL ROUTE NO:  
STATE ROUTE NO: 136  
GADOT P.I. NO: 621230

Date of Report: JUN-12-1992

RECOMMENDATION FOR APPROVAL	
DATE	State Road & Airport Design Engineer
DATE	State Environmental Engineer
DATE	State Traffic & Safety Engineer
6-17-92	<i>[Signature]</i> District Engineer
DATE	STATE BRIDGE ENGINEER

# DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

## INTERDEPARTMENT CORRESPONDENCE



FILE

**STP-181-1(4) DADE COUNTY**  
**P.J. NO. 621230**

OFFICE Cartersville

DATE March 11, 1992

FROM

Felton D. Rutledge, District Engineer

TO

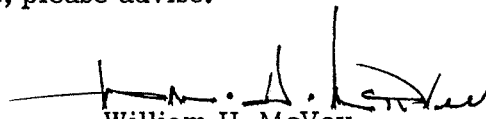
Robert Humphrey, Project Review Engineer

SUBJECT

**CONCEPT REPORT APPROVAL**

Attached is the approval sheet for the Concept Report on the above file project for your further handling.

If we may be of further assistance, please advise.

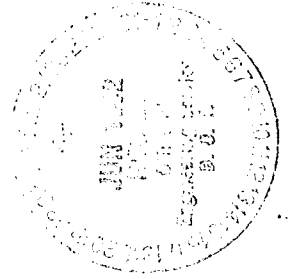
  
William H. McVey  
Preconstruction Engineer  
District Six

FDR:WHM:djd

Attachment



DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
OFFICE OF ROAD AND AIRPORT DESIGN



PROJECT CONCEPT REPORT

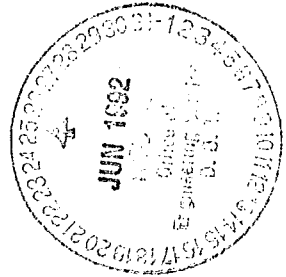
STP-181-1(4)  
FORMALLY FR-181-1(4)  
DADE COUNTY

FEDERAL ROUTE NO:  
STATE ROUTE NO: 136  
GADOT P.I. NO: 621230

Date of Report: JUN-12-1992

RECOMMENDATION FOR APPROVAL	
DATE	State Road & Airport Design Engineer
DATE	State Environmental Engineer
DATE 6/23/92	Ron Blum State Traffic & Safety Engineer
DATE	District Engineer
DATE	STATE BRIDGE ENGINEER

# DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA



## INTERDEPARTMENT CORRESPONDENCE

**FILE** STP-181-1 (4)  
Dade County  
P.I. No. 621230

**OFFICE** Atlanta, Ga.

**DATE** June 19, 1992

**FROM** *R. Colvin*  
Ron Colvin, P.E., State Traffic & Safety Engineer

**TO** Robert E. Humphrey, P.E., Project Review Engineer

**SUBJECT** Project Concept Report Review

We have reviewed the concept report on the above project for widening the existing three lane roadway on S.R. 136 in Trenton to a five lane facility, two 12 ft. lanes in each directions, with a 14 ft. center turn lane and shoulder widths to meet current design specifications. The project begins at the west city limits of Trenton and extends eastward along S.R. 136 bridging I-59 and ends at S.R. 58/U.S. 11. Length of project is 1.0 miles. Design speed is 35/45 MPH.

Widening of the S.R. 136 bridge over I-59 from an existing three lane structure to a five lane bridge with 6 ft. sidewalks will increase sight distance at the north and south I-59 exit ramps intersecting with S.R. 136.

We note the posted school zone is 35 MPH from Pace Road West of I-59 to S.R. 58 intersection east of I-59.

It is recommended that the traffic signal located at S.R. 53 and U.S. 11 be upgraded with this project.

The concept provides for safety and operational capacity. Approval is recommended.

RC:LEO:lw

Attachment (signature page)

cc: Roland Hinners, State Road & Airport Design Engineer  
Felton Rutledge, District Engineer - Cartersville  
Burt Riddle, Traffic & Safety

DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA  
OFFICE OF ROAD AND AIRPORT DESIGN



PROJECT CONCEPT REPORT

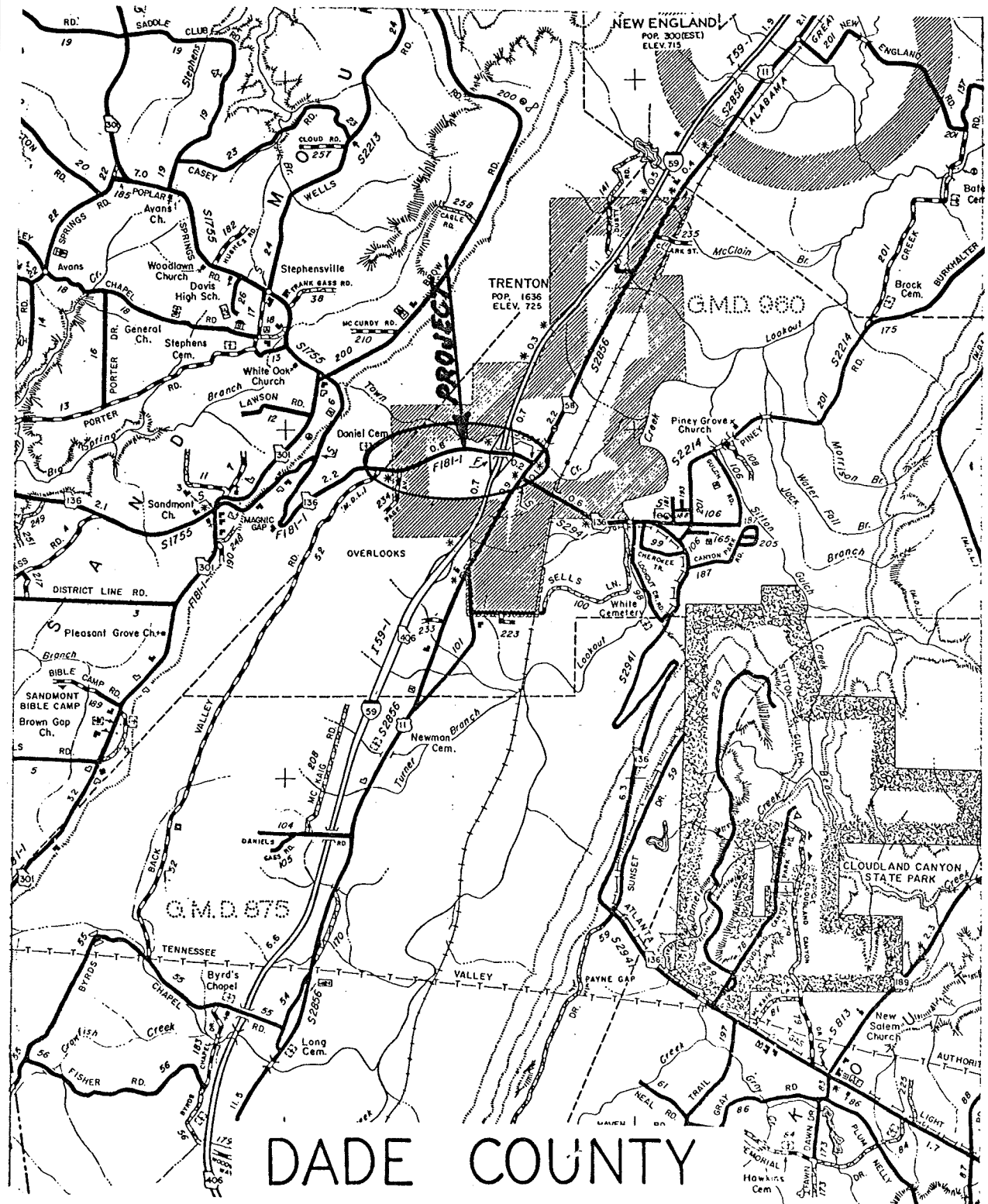
STP-181-1(4)  
FORMALLY FR-181-1(4)  
DADE COUNTY

FEDERAL ROUTE NO:  
STATE ROUTE NO: 136  
GADOT P.I. NO: 621230

Date of Report: JUN-12-1992

RECOMMENDATION FOR APPROVAL	
DATE	State Road & Airport Design Engineer
DATE	State Environmental Engineer
DATE	State Traffic & Safety Engineer
DATE	District Engineer
6/25/92	<i>Paul V. Hiles Jr.</i>
DATE	STATE BRIDGE ENGINEER

PROJECT MAP - Project No. : STP-181-1(4)



# PROJECT CONCEPT REPORT

PAGE 3  
P.I. NO: 621230

PROJECT NUMBER: STP-181-1(4)

## PROJECT LOCATION & DESCRIPTION

PROJECT STP-181-1(4) BEGINS AT THE WEST CITY LIMITS IN TRENTON ON SR 136 AND EXTENDS EAST ACROSS I-59 TO SR58/US11 A DISTANCE OF APPROXIMATELY 1.0 MILES. THIS PROJECT WILL WIDEN AND RECONSTRUCT THE EXISTING THREE LANES ON SR 136 TO A FIVE LANE WITH URBAN AND RURAL DESIGN. THIS PROJECT INCLUDES THE WIDENING OF I-59 BRIDGE TO FIVE LANES WITH SIX FOOT SIDEWALKS.

PROJECT LENGTH: 1.000 MILES

## TRAFFIC

### CURRENT

YEAR	AADT
1996	14700

### PROJECTED

YEAR	AADT
2016	22500

## PDP CLASSIFICATION

MAJOR EXISTING

## FUNCTIONAL CLASSIFICATION

RURAL MAJOR COLLECTOR

## PROJECT NEED & PURPOSE

SEE ATTACHMENT

### EXISTING ROADWAY

TYPICAL SECTION: 3 LANE- URBAN AND RURAL DESIGN R/W WIDTH  
100 FT

POSTED SPEED  
45 MPH

MAX DEGREE OF CURVE  
10.00 DEG.

MAX GRADE  
7.50 %

#### MAJOR STRUCTURES:

1. SR 136 BRIDGE OVER I-59 (285 FT X 40 FT CONC) THREE LANES
- 2.
- 3.

### PROPOSED ROADWAY

TYPICAL SECTION: FIVE LANES WITH URBAN AND RURAL DESIGN.  
(SIDEWALKS IN SCHOOL ZONE)

DESIGN SPEED  
35/45 MPH

MAX DEGREE OF CURVE;  
ALLOWABLE: 10.75 DEG.  
PROPOSED: 10.00 DEG.

MAX GRADE; 7.50% <sup>72</sup>  
ALLOWABLE: 9.50 %  
PROPOSED: 7.50 %

MAJOR STRUCTURES: SR 136 BRIDGE OVER I-59  
(FIVE LANES WITH 6 FT SIDEWALKS)  
285' x 38'

### PROPOSED RIGHT OF WAY

R/W WIDTH  
82 FT

#### DISPLACEMENTS

RES.: 0 BUS.: 0 M.H.: 0

TYPE OF ACCESS CONTROL: CONTROLLED ACCESS THROUGH INTERCHANGE  
AND DRIVE PERMITS OUTSIDE INTERCHANGE LIMITS.

**COORDINATION**

CONCEPT TEAM MEETING DATE: MAY 15, 1992

LOCATION INSPECTION DATE: NONE

PERMITS REQUIRED (4f, COE, 404, etc.): NOT DETERMINED

LEVEL OF PUBLIC INVOLVEMENT: A PUBLIC HEARING WILL BE HELD

TIME SAVING PROCEDURES APPROPRIATE: NO

OTHER PROJECT IN THE AREA: NONE

**MISCELLANEOUS**

TRAFFIC CONTROL DURING CONSTRUCTION: MAINTAIN TRAFFIC DURING  
CONSTRUCTION

LEVEL OF ENVIRONMENTAL ANALYSIS: ENVIRONMENTAL ASSESSMENT

DESIGN VARIATIONS REQUIRED: NONE

UNDERGROUND STORAGE TANKS: A FIELD INVESTIGATION WILL BE DONE

HAZARDOUS WASTE SITES: A SOIL SURVEY IS REQUIRED

**ALTERNATIVES CONSIDERED**

1. NO BUILD.

ESTIMATED COST	
CONSTRUCTION: \$ 1,790,500	RIGHT-OF-WAY: \$ 410,000
E & C (10) : \$ 179,050	ACQUIRED BY: D.O.T.
INFLATION : \$ 295,433	UTITLITES : \$ 0
	ADJUSTED BY: LGPA
TOTAL CONSTRUCTION COST: \$ 2,264,983	

COMMENTS: THE ACCIDENT DATA INDICATES A HIGH ACCIDENT RATE AT THE NORTH AND SOUTH EXIT RAMPS WITH SR 136 AND I-59 DUE TO INADEQUATE SIGHT DISTANCE WITH THE BRIDGE ENDS. WIDING I-59 BRIDGE WITH SIDEWALKS WILL INCREASE THE SIGHT DISTANCE ON THESE RAMPS. THIS PROJECT STP-181-(4)DADE COUNTY WAS PROGRAMED FROM THE WEST CITY LIMITS OF TRENTON ON SR 136 TO I-59, (0.80 MILE).THE CONCEPT TEAM RECOMMEND THIS PROJECT BE EXTENDED TO THE INTERSECTION OF SR 136 AND SR 58, US 11 INCLUDING I-59 BRIDGE WIDENING (1.00 MILES). THERE IS A POSTED SCHOOL ZONE OF 35 MPH FROM PACE ROAD WEST OF I-59 TO SR 58 INTERSECTION EAST OF I-59, A DISTANCE OF APPROXIMATELY 0.4 MILE. ESTIMATED SURFACING COST-ASPH E @ \$35.00/TON (3100 TONS)  
ASPH B @ \$30.00/TON (1800 TONS)  
ASPH BASE @ \$25.00/TON (3500 TONS)  
AGGREGATE BASE @ \$12.00/TON (25000 TONS)  
ESTIMATED EARTHWORK COST-\$2.50/CU YD (85,000 CU YDS)  
ESTIMATED BRIDGE COST-\$45.00/SQ FT (11400 SQ FT)  
IT WAS REPORTED NO WETLANDS AND TWO POTENTIAL HISTORIC SITES.

\$65 (STEEL BMS-DESIGNED)

ATTACHMENTS: PRELIMINARY COST ESTIMATE, NEED AND PURPOSE STATEMENT  
PROPOSED TYPICAL SECTION, MINUTES OF CONCEPT MEETING



PRELIMINARY COST ESTIMATE

PROJECT NUMBER: STP-181-1(4)

COUNTY: DADE

DATE: JUN-12-1992

ESTIMATED LETTING DATE: JUL-01-1995

PREPARED BY: NEIL PASSMORE

PROJECT LENGTH (MILES): 1.000

( ) PROGRAMMING PROCESS (X) CONCEPT DEVELOPMENT ( ) DURING PROJECT DEV.

PROJECT COST

A. RIGHT-OF-WAY:

1. PROPERTY (land & easement)	\$	410,000
2. DISPLACEMENTS: Res.0 Bus.0 M.H.0	\$	0
3. OTHER COST (adm./court, inflation)	\$	0
SUBTOTAL:A	\$	<u>410,000</u>

B. REIMBURSABLE UTILITIES:

1. RAILROAD	\$	0
2. TRANSMISSION LINES	\$	0
3. SERVICES	\$	0
SUBTOTAL:B	\$	<u>0</u>

C. CONSTRUCTION:

1. MAJOR STRUCTURES:

a. RETAINING WALLS	\$	0
b. BRIDGES	\$	<del>513,000</del> 741,000
c. DETOUR BRIDGES	\$	0
d. BOX CULVERTS	\$	0
SUBTOTAL:C-1	\$	<u><del>513,000</del> 741,000</u>

2. GRADING AND DRAINAGE:

a. EARTHWORK \_\_\_\_\_ \$ 212,500

b. DRAINAGE:

1) Cross Drain Pipe (exc.box culverts) \_\_\_\_\_ \$ 50,000

2) Curb and Gutter \_\_\_\_\_ \$ 100,000

3) Longitudinal System (incl.catch basins) \_\_\_\_\_ \$ 150,000

SUBTOTAL:C-2 \$ 512,500

3. BASE AND PAVING:

a. AGGREGATE BASE \_\_\_\_\_ \$ 300,000  
(specify type of base)

b. ASPHALT PAVING: Surface \_\_\_\_\_ \$ 108,500  
Binder \_\_\_\_\_ \$ 54,000  
Base \_\_\_\_\_ \$ 87,500

SUBTOTAL:C-3.b \$ 250,000

c. CONCRETE PAVING \_\_\_\_\_ \$ 0

d. OTHER \_\_\_\_\_ \$ 100,000

SUBTOTAL:C-3 \$ 650,000

4. LUMP ITEMS:

a. TRAFFIC CONTROL \_\_\_\_\_ \$ 10,000

b. CLEARING AND GRUBBING \_\_\_\_\_ \$ 30,000

c. LANDSCAPING \_\_\_\_\_ \$ 0

d. EROSION CONTROL \_\_\_\_\_ \$ 50,000

e. DETOURS \_\_\_\_\_ \$ 0

SUBTOTAL:C-4 \$ 90,000

5. MISCELLANEOUS:

a. LIGHTING \_\_\_\_\_ \$ 0

b. SIGNING - STRIPING - (SIGNAL) upgrade @ \$258 \_\_\_\_\_ \$ 50,000 TR

c. GUARDRAIL \_\_\_\_\_ \$ 25,000

d. SIDEWALK - MEDIAN BARRIER \_\_\_\_\_ \$ 0

SUBTOTAL:C-5 \$ 75,000  
~~25,000~~

6. SPECIAL FEATURES \_\_\_\_\_ SUBTOTAL:C-6 \$ 0

ESTIMATE SUMMARY

A. RIGHT-OF-WAY . . . . .	\$	<u>410,000</u>	
B. REIMBURSABLE UTILITIES . . . . .	\$	<u>0</u>	
C. CONSTRUCTION			
1. MAJOR STRUCTURES . . . . .	\$	<u><sup>741,000</sup> 513,000</u>	
2. GRADING AND DRAINAGE . . . . .	\$	<u>512,500</u>	
3. BASE AND PAVING . . . . .	\$	<u>650,000</u>	
4. LUMP ITEMS . . . . .	\$	<u>90,000</u>	
5. MISCELLANEOUS . . . . .	\$	<u><sup>75,000</sup> <del>25,000</del></u>	
6. SPECIAL FEATURES . . . . .	\$	<u>0</u>	
SUBTOTAL CONSTRUCTION COST . . . . .	\$	<u><sup>2,018,500</sup> <del>1,790,500</del></u>	<sup>2,068,500</sup>
E. & C. (10%) . . . . .	\$	<u>179,050</u>	
INFLATION ( 5% PER YEAR) . . . . .	\$	<u>295,433</u>	
TOTAL CONSTRUCTION COST . . . . .	\$	<u>2,264,983</u>	
GRAND TOTAL PROJECT COST . . . . .	\$		<div>2,674,983</div>

**Need and Purpose**  
**for**  
**STP-181-1(4) Dade County**

June 5, 1992

The proposed project is for the widening of SR 136 from CR 52 (just west of the Trenton City Limits) extending east to the SR 58/US 11 intersection.

The project will widen the existing two lane road with a five lane section. The bridge over I-59 will also be widened in this project.

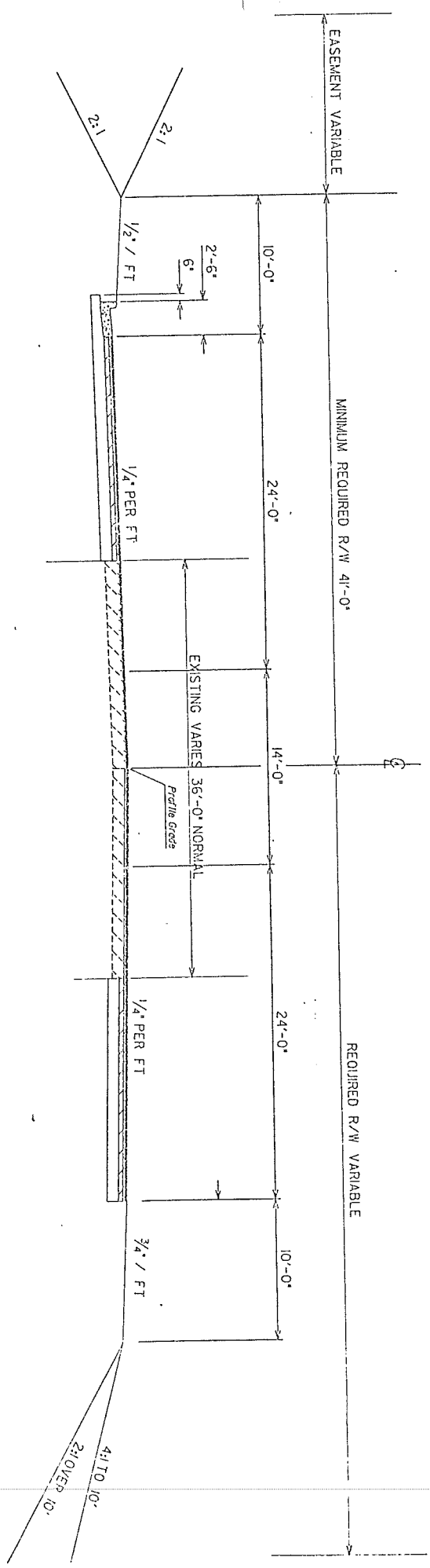
The roadway is exceeding its capacity and these improvements will increase the capacity of SR 136 and raise the level-of-service to an acceptable level. The bridge widening will decrease turning delays at the I-59 interchange. The area between I-59 and SR 58/US 11 is becoming urban in nature due to commercial growth. This section will experience increased safety improved access along SR 136.

The western terminus of this project is CR 52, just west of the city limits. The terrain becomes very rugged and traffic volumes drop by over 20% beyond this point. The eastern terminus is at SR 58/US 11, a major north-south

connector. Due to the number of vehicles accessing I-59 and SR 58/US 11 volumes decrease by almost half beyond the SR 58/US 11 intersection.

# PROJECT FR-181-1(4) DADE CO.

S R 136 IN TRENTON FROM WEST CITY LIMITS EAST TO S R 58 OVER 1-59, 1.0 MILES



STATE	PROJECT NUMBER	SHEET TOTAL
GA.		NO. SHEETS


DEPARTMENT OF TRANSPORTATION  
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE STP-181-1(4) Dade County  
P.I. No. 621230

OFFICE Atlanta

DATE May 20, 1992

FROM   
Roland Hinners, P.E., State Road & Airport Design Engineer *OPB*

TO SEE DISTRIBUTION

SUBJECT Minutes of Concept Team Meeting

A concept team meeting was held on 5/15/92 in Road Design's Conference Room. In attendance included: Senator Sonny Huggins, Lori Kennedy/FHWA; Paul Rollins, Preston Daniels, Willard Ryan/City of Trenton; Don Hill/GA Power; Steve Murphy/Atlanta Gas Light; Ron Walker/Ga. Natural Gas Company; John Richard, Louis Owen, Reba Scott, Bill McVey, John Bishop, Mike Gannaway and Neil Passmore.

PROJECT DESCRIPTION: The project begins at the west City Limits of Trenton on SR 136 and extends east to SR 58, US 11 in Trenton a distance of approximately 1.0 miles. It was recommended that the widening of the I-59 bridge be included in this project, which would include an urban design with sidewalks. It was reported that a school zone was within the project limits. The proposed typical section is to widen and reconstruct the existing three lanes to five lanes with urban and rural design.

The following was reported by each team member:

**Planning:** Will prepare a need and purpose statement.

**Location:** Mapping has been submitted. Team member will review to include mapping from I-59 to SR 58, US 11.

**Environmental:** It was reported that the project has no wetlands, but there are two potential historic site. An underground tank investigation will be made. Three (3) sets of photos were sent to Bill McVey.

**Right of Way:** Project will require a minimum of 82 feet, with easement.

**Utilities:** Conflicts were reported with power, gas and water.

**Traffic & Safety:** Accident data has been furnished. It was recommended that the traffic signal at SR 53, US 11 be upgraded with this project.

continued...

PAGE 2  
May 20, 1992

**Schedule:** It was reported that the schedule will be completed after concept approval.

**Comments:** A high accident rate was reported at the north ramp intersection with SR 136 at I-59, due to inadequate sight distance with the bridge end. It was recommended by the concept team that a public hearing be held on project STP-181-1(4). It was also reported that I-59 interchange should be classified as urban design interchange.

DISTRIBUTION

Charles Lewis  
John Lively  
David Studstill  
Felton Rutledge  
Ron Colvin  
Dudley Ellis  
Frank Golder  
Don Welch  
Herman Griffin  
Bob Humphrey  
Bascombe Hughes  
Bill McVey  
Lori Kennedy, FHWA  
Paul Rollings/City of Trenton